according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

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Version	Revision Date:	SDS Number:	Date of last issue: -			
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023			

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	SWITCH
Design code	:	A9219B
Unique Formula Identifier (UFI)	:	0VXR-0DCK-C00V-T6T6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	: Fungicide
stance/Mixture	

1.3 Details of the supplier of the safety data sheet

Company	:	Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom
Telephone	:	+44 (0) 1223 883400
Telefax	:	+44 (0) 1223 882195
E-mail address of person responsible for the SDS	:	customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone num-	:	+44 1484 538444
ber		

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting
egory 1	effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITC	ЭН		
/ersion .0	Revision Date: 18.08.2023	SDS Number:Date of last issue: -S1269856Date of first issue: 18.08.2023	
Hazar	d pictograms		
Signa	l word	: Warning	
Hazard statements		 H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. 	
Preca	utionary statements	 Prevention: P261 Avoid breathing dust. P280 Wear protective gloves. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. 	
		Disposal: P501 Dispose of contents/container to a licensed hazardo waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous was	у

Hazardous components which must be listed on the label:

cyprodinil (ISO)

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

May form combustible dust concentrations in air.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Components Chemical name	CAS-No.	Classification	Concentration
	EC-No.	Chacomeanon	(% w/w)
	Index-No.		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Registration number		
cyprodinil (ISO)	121552-61-2 612-242-00-X	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 30 - < 50
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
fludioxonil (ISO)	131341-86-1	Aquatic Acute 1; H400	>= 25 - < 30
	608-069-00-4	Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
reaction product of naphthalene, butanol, sulfonated and neutral- ized by caustic soda	Not Assigned 01-2119980979-09- xxxx	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
If inhaled	 Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

Versio 1.0	n Revision Date: 18.08.2023		DS Number: 269856	Date of last issue: - Date of first issue: 18.08.2023
In case of skin contact		:	 Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. 	
In	case of eye contact	:	Rinse immediatel	ed clothing before re-use. y with plenty of water, also under the eyelids,
			for at least 15 mir Remove contact I Immediate medic	
lf	swallowed	:	If swallowed, see container or label Do NOT induce v	-
	est important symptoms a	nd e		e and delayed
S	ymptoms	:	Nonspecific No symptoms kno	own or expected.
	-	mec		d special treatment needed
	reatment		Treat symptomati	fic antidote available. cally.
SECT	ION 5: Firefighting mea	sur	es	
5.1 Ex	tinguishing media			
S	uitable extinguishing media	:	Extinguishing mea Use water spray, bon dioxide. Extinguishing mea Alcohol-resistant or	alcohol-resistant foam, dry chemical or car- dia - large fires
			Water spray	
	nsuitable extinguishing edia	:	Do not use a solic fire.	d water stream as it may scatter and spread
5.2 Sp	ecial hazards arising from	the	e substance or mi	xture
	pecific hazards during fire- ghting	:	As the product co will produce dens ucts of combustio	y burning with a visible flame. ntains combustible organic components, fire e black smoke containing hazardous prod- n (see section 10). mposition products may be a hazard to
5.3 Ad	vice for firefighters			
	pecial protective equipment r firefighters	:	Wear full protectiv paratus.	ve clothing and self-contained breathing ap-
Fu	urther information	:	Do not allow run-o	off from fire fighting to enter drains or water
			4 / 00	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

•••••						
Version	Revision Date:	SDS Number:	Date of last issue: -			
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023			

courses.

Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Refer to protective measures listed in sections 7 and 8.
		Avoid dust formation.

6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform
		respective authorities.

6.3 Methods and material for containment and cleaning up

air. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.	Method	s for cleaning up	:	Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.	-
--	--------	-------------------	---	--	---

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

This material can become readily charged in most operations.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep containers tightly closed in a dry, cool and well-
areas and containers		ventilated place. Keep out of the reach of children. Keep away

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

•••••			
Version 1.0	Revision Date: 18.08.2023	SDS Number: S1269856	Date of last issue: - Date of first issue: 18.08.2023
		from food, d	rink and animal feedingstuffs.
Further information on stor- age stability		: Physically and chemically stable for at least 2 years wher stored in the original unopened sales container at ambien temperatures.	
7.3 Specific end use(s) Specific use(s)			and safe use of this product, please refer to the nditions laid down on the product label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
sodium sulphate	Workers	Inhalation	Systemic effects	20 mg/m3
	Workers	Inhalation	Local effects	20 mg/m3
	Consumers	Inhalation	Systemic effects	12 mg/m3
	Consumers	Inhalation	Local effects	12 mg/m3
reaction product of naphthalene, butanol, sulfonated and neu- tralized by caustic soda	Workers	Inhalation	Long-term systemic effects	0.549 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0.36 mg/m3
	Workers	Dermal	Long-term systemic effects	1.057 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.137 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0.18 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.528 mg/kg
	Consumers	Oral	Long-term systemic effects	0.528 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
sodium sulphate	Fresh water	11.09 mg/l
	Freshwater - intermittent	17.66 mg/l
	Marine water	1.109 mg/l
	Sewage treatment plant	800 mg/l
	Fresh water sediment	40.2 mg/kg dry weight (d.w.)
	Marine sediment	4.02 mg/kg dry weight (d.w.)
	Soil	1.54 mg/kg dry weight (d.w.)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

-				
Version	Revision Date:	SDS Number:	Date of last issue: -	
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023	

reaction product of naphthalene, butanol, sulfonated and neutral- ized by caustic soda	Fresh water	0.2 mg/l
	Freshwater - intermittent	2 mg/l
	Marine water	0.02 mg/l
	Sewage treatment plant	0.016 mg/l
	Fresh water sediment	5.4 mg/kg
	Marine sediment	0.54 mg/kg
	Soil	0.12 mg/kg

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

reisonai protective equipinei	IL	
Eye/face protection Hand protection	:	No special protective equipment required.
Material Break through time Glove thickness	:	Nitrile rubber > 480 min 0.5 mm
Remarks	:	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place. Remove and wash contaminated clothing before re-use.
Respiratory protection	:	Wear as appropriate: Dust impervious protective suit No personal respiratory protective equipment normally re- quired.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITC	СН		
Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023
Prote	ctive measures	limit they must : The use of tec over the use o	are facing concentrations above the exposure use appropriate certified respirators. hnical measures should always have priority f personal protective equipment. g personal protective equipment, seek appro- onal advice.
Envir	onmental exposure	controls	
Wate	r	:	
			to surface water or sanitary sewer system. contaminates rivers and lakes or drains inform

respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	granules
Colour	:	grey to brown
Odour	:	weak
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	May form combustible dust concentrations in air.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Minimum ignition temperature pH	:	600 °C 9.6 Concentration: 1 %w/v
Viscosity Viscosity, kinematic	:	No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

Versi 1.0	on Revision Date: 18.08.2023		S Number: 269856	Date of last issue: - Date of first issue: 18.08.2023
	Solubility(ies)			
	Water solubility	:	No data available	9
	Solubility in other solvents	:	No data available	9
	Partition coefficient: n- octanol/water	:	No data available	9
١	√apour pressure	:	No data available	9
I	Density	:	1 g/cm3	
I	Bulk density	:	0.537 g/cm3	
I	Relative vapour density	:	No data available	9
I	Particle characteristics Particle size	:	No data available	9
9.2 O	ther information			
I	Explosives	:	Not explosive	
(Oxidizing properties	:	The substance o	r mixture is not classified as oxidizing.
I	Flammable solids Burning number	:	5 (20 °C)	
			6 (100 °C)	
Ś	Self-heating substances	:	The substance o	r mixture is not classified as self heating.
I	Evaporation rate	:	No data available	9
I	Minimum ignition energy	:	30 - 100 mJ	

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

Revision Date: 18.08.2023			Date of last issue: - Date of first issue: 18.08.2023
itions to sucid			
itions to avoid	·	No decompositi	on il used as directed.
npatible materials			
rials to avoid	:	None known.	
rdous decomposition	proc	lucts	
rdous decomposition	:	No hazardous c	lecomposition products are known.
	18.08.2023 itions to avoid npatible materials ials to avoid rdous decomposition rdous decomposition	18.08.2023 S1 itions to avoid : npatible materials : ials to avoid : rdous decomposition prod : rdous decomposition :	18.08.2023 S1269856 itions to avoid : No decomposition npatible materials : ials to avoid : None known. rdous decomposition products : No hazardous decomposition

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure	:	Ingestion Inhalation Skin contact Eye contact
Acute toxicity		
Product:		
Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Components:		
cyprodinil (ISO):		
Acute oral toxicity	:	LD50 (Rat, female): 2,500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 1.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
fludioxonil (ISO):		
Acute oral toxicity		LD50 (Rat, male and female): > 5,000 mg/kg

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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sion	Revision Date:	SDS Number:	Date of last issue: -
	18.08.2023	S1269856	Date of first issue: 18.08.2023
Acute	inhalation toxicity		ale and female): > 2.6 mg/l
		Exposure time	e: 4 h ere: dust/mist
			The substance or mixture has no acute inhala-
		tion toxicity	
Acute	dermal toxicity		ale and female): > 2,000 mg/kg
		Assessment: toxicity	The substance or mixture has no acute dermal
rocoti	on product of poph	holono hutonol ou	Keneted and neutralized by severie and a
	on product of napht	: LD50 (Rat): 1	Ifonated and neutralized by caustic soda:
/ iouic		· · · ·	
Acute	inhalation toxicity	: LC50 (Rat): 4	
		Exposure time Test atmosph	e: 4 n ere: dust/mist
A	de une el terricitor		
Acute	dermal toxicity	: LD50 (Rabbit)): 3,000 mg/kg
Skin c	orrosion/irritation		
<u>Produ</u>	<u>ct:</u>		
Specie		: Rabbit	
Result		: No skin irritati	on
<u>Comp</u>	onents:		
cypro	dinil (ISO):		
Specie		: Rabbit	
Result		: No skin irritati	on
	xonil (ISO):		
Specie		: Rabbit	a n
Result		: No skin irritati	on
Seriou	us eye damage/eye i	irritation	
<u>Produ</u>			
Specie		: Rabbit	
Result		: No eye irritatio	on
<u>Comp</u>	onents:		
	dinil (ISO):		
	es	: Rabbit	
Specie Result		: No eye irritatio	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SV	VITCH			
Vers 1.0	sion Revision Date: 18.08.2023		DS Number: 269856	Date of last issue: - Date of first issue: 18.08.2023
	Species Result	:	Rabbit No eye irritation	
	reaction product of naphth	alen	e. butanol. sulfon	ated and neutralized by caustic soda:
	Species Result	:	Rabbit Risk of serious da	
	Respiratory or skin sensitis	satio	on	
	Product:			
	Species Result	:	Guinea pig May cause sensit	isation by skin contact.
	Components:			
	cyprodinil (ISO):			
	Species Result	:	Guinea pig The product is a s	kin sensitiser, sub-category 1B.
	fludioxonil (ISO):			
	Species Result	:	Guinea pig Did not cause ser	sitisation on laboratory animals.
	Germ cell mutagenicity			
	Components:			
	cyprodinil (ISO): Germ cell mutagenicity- As- sessment	:	Animal testing dic	not show any mutagenic effects.
	fludioxonil (ISO): Germ cell mutagenicity- As- sessment	:	Animal testing dic	not show any mutagenic effects.
	reaction product of naphth	alen	e, butanol, sulfon	ated and neutralized by caustic soda:
	Germ cell mutagenicity- As- sessment	:	In vitro tests did n	ot show mutagenic effects
	Carcinogenicity			
	Components:			
	cyprodinil (ISO): Carcinogenicity - Assess- ment	:	No evidence of ca	arcinogenicity in animal studies.
	fludioxonil (ISO): Carcinogenicity - Assess- ment	:	No evidence of ca	arcinogenicity in animal studies.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

ersion .0	Revision Date: 18.08.2023	SDS Number: S1269856	Date of last issue: - Date of first issue: 18.08.2023
Repr	oductive toxicity		
<u>Com</u>	ponents:		
	odinil (ISO): oductive toxicity - As- ment	: No toxicity to re	eproduction
Repr	oxonil (ISO): oductive toxicity - As- ment	: No toxicity to re	eproduction
STO	T - single exposure		
Com	ponents:		
	tion product of naphth ssment	: The substance	onated and neutralized by caustic soda: or mixture is classified as specific target orga exposure, category 3 with respiratory tract
STO	T - repeated exposure		
<u>Com</u>	ponents:		
	odinil (ISO): essment		or mixture is not classified as specific target repeated exposure.
	oxonil (ISO): essment		or mixture is not classified as specific target repeated exposure.
1.2 Info	rmation on other haza	rds	
Ende	ocrine disrupting prop	erties	
Prod	luct:		
Asse	essment	ered to have er REACH Article	/mixture does not contain components consid ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher.

12.1 Toxicity

Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3.1 mg/l Exposure time: 96 h

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH	
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SV	VITCI	-			
Vers 1.0		Revision Date: 18.08.2023)S Number: 269856	Date of last issue: - Date of first issue: 18.08.2023
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.14 mg/l h
	Toxicity plants	to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 1.6 mg/l ! h
				NOEC (Desmode End point: Growth Exposure time: 72	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.32 mg/l Exposure time: 21 Species: Oncorhy Test Type: flow-th	nchus mykiss (rainbow trout)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.01 mg/l Exposure time: 22 Species: Daphnia	d magna (Water flea)
	<u>Compo</u>	nents:			
	cyprod	inil (ISO):			
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 2.41 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.033 mg/l h
				LC50 (Americamy Exposure time: 96	
	Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoce mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 5.2 h
				NOEC (Raphidoco mg/l End point: Growth Exposure time: 72	
				EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 1.78 mg/l ! h
				NOEC (Skeletone Exposure time: 72	ma costatum (marine diatom)): 0.541 mg/l ! h
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	ludge): > 100 mg/l n

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

Vers	VIICI sion	Revision Date:		S Number:	Date of last issue: -
1.0		18.08.2023	S1	269856	Date of first issue: 18.08.2023
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.0406 mg Exposure time: 34 Species: Cyprinoc	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.0082 mg Exposure time: 21 Species: Daphnia	
				NOEC: 0.0019 mg Exposure time: 28 Species: American	d
	M-Facto toxicity)	or (Chronic aquatic	:	10	
	fludiox	onil (ISO):			
	Toxicity	to fish	:	LC50 (Oncorhyncl Exposure time: 96	hus mykiss (rainbow trout)): 0.23 mg/l 5 h
				LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 0.7 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.4 mg/l h
				EC50 (Americamy Exposure time: 96	
	Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoce 0.259 mg/l Exposure time: 96	elis subcapitata (freshwater green alga)): 5 h
				EC10 (Raphidoce 0.077 mg/l End point: Growth Exposure time: 96	
				ErC50 (Skeletone Exposure time: 96	ma costatum (marine diatom)): 0.43 mg/l i h
				NOEC (Skeletone End point: Growth Exposure time: 96	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
				M-Factor=1 used	for transport classification
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 I	ludge): > 1,000 mg/l n
	Toxicity	to fish (Chronic tox-	:	NOEC: 0.04 mg/l	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SW	ITCI	Н			
Versio 1.0	on	Revision Date: 18.08.2023		DS Number: 269856	Date of last issue: - Date of first issue: 18.08.2023
i	city)			Exposure time: 28 Species: Oncorhy	8 d ynchus mykiss (rainbow trout)
				EC10: 0.018 mg/l Exposure time: 1 Species: Pimepha	
a	Foxicity aquatic c toxici	to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.035 mg Exposure time: 2 Species: Daphnia	
				NOEC: 0.018 mg Exposure time: 20 Species: America	8 d
	M-Facto oxicity)	or (Chronic aquatic	:	10	
· ·	.oxioity)			M-Factor=1 used	for transport classification
	r eactio Foxicity		len :		a ted and neutralized by caustic soda: o (zebra fish)): > 100 mg/l 6 h
		to daphnia and other invertebrates	:	Exposure time: 4	ation given is based on data obtained from
	Toxicity plants	to algae/aquatic	:	200 mg/l Exposure time: 72	ation given is based on data obtained from
12.2 I	Persist	ence and degradabil	ity		
<u>c</u>	Compo	onents:			
c	cyprod	inil (ISO):			

Biodegradability : Result: Not readily biodegradab	ole.
Stability in water : Degradation half life: 141 d Remarks: Product is not persiste	tent.
fludioxonil (ISO):	
fludioxonil (ISO): Biodegradability : Result: Not readily biodegradab	ole.

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CIA/ITC	۰LI						
SWITC				Dete of least increase			
Version 1.0	Revision Date: 18.08.2023	SDS Nu S126985		Date of last issue: - Date of first issue: 18.08.2023			
Diada	are debility	I Deel	ut. Doodily b	indegradable			
Βισαεί	gradability	Rem	 Result: Readily biodegradable. Remarks: Information given is based on data obtained from similar substances. 				
		simil	ar substance	es.			
12.3 Bioac	cumulative potential						
<u>Comp</u>	onents:						
cypro	dinil (ISO):						
Bioaco	cumulation	: Rem	arks: Does r	not bioaccumulate.			
	on coefficient: n- bl/water	: log F	ow: 4.0 (25	°C)			
fludio	xonil (ISO):						
Bioaco	cumulation	: Rem	arks: Does r	not bioaccumulate.			
	on coefficient: n- bl/water	: log F	?ow: 4.12 (2	5 °C)			
12.4 Mobili	ity in soil						
<u>Comp</u>	onents:						
cypro	dinil (ISO):						
Distrib	ution among environ-	: Rem	arks: Cyproo	dinil has low to slight mobility in soil.			
	l compartments ty in soil	: Dissi	pation time:	49 d			
			•	pation: 50 % (DT50) ct is not persistent.			
fludio	xonil (ISO):	Rom					
Distrib	ution among environ-	: Rem	arks: immob	ile			
	l compartments ty in soil	· Dissi	nation time.	14 d			
Otabilit			Dissipation time: 14 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.				
				ct is not persistent.			
	ts of PBT and vPvB a	ssessmei	IT				
<u>Produ</u>							
Asses	sment	to be very	either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of			
<u>Comp</u>	onents:						
cypro	dinil (ISO):						
Asses		lating	g and toxic (I	s not considered to be persistent, bioaccumu- PBT) This substance is not considered to be nd very bioaccumulating (vPvB).			

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

200110	511		
Version 1.0	Revision Date: 18.08.2023	SDS Number: S1269856	Date of last issue: - Date of first issue: 18.08.2023
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fludio	oxonil (ISO):		
Asse	ssment	lating and toxic	e is not considered to be persistent, bioaccumu ; (PBT) This substance is not considered to be and very bioaccumulating (vPvB).
12.6 Endo	ocrine disrupting pro	perties	
Prod	uct:		
Asse	ssment	ered to have e REACH Article	/mixture does not contain components consid- ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.
12.7 Othe	r adverse effects		
No da	ata available		

13.1 Waste treatment methods

J. I	waste treatment methous	
	Product :	Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incinera- tion. If recycling is not practicable, dispose of in compliance with local regulations.
	Contaminated packaging :	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Do not re-use empty containers.
	Waste Code :	uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3077
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

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Versi 1.0	ion	Revision Date: 18.08.2023		OS Number: 269856	Date of last issue: - Date of first issue: 18.08.2023
14.2	UN pr	oper shipping name			
1	ADN		:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID, FLUDIOXONIL)
	ADR		:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID, FLUDIOXONIL)
I	RID		:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID, FLUDIOXONIL)
I	IMDG		:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID, FLUDIOXONIL)
I	IATA		:		/ hazardous substance, solid, n.o.s. FLUDIOXONIL)
14.3	Trans	port hazard class(es)			
				Class	Subsidiary risks
	ADN		:	9	
1	ADR		:	9	
I	RID		:	9	
I	IMDG		:	9	
I	ΙΑΤΑ		:	9	
14.4	Packi	ng group			
 (Classi			M7 90 9 This product ca single or combin single or inner p	n be subject to exemptions when packaged in nation packagings containing a net quantity per backaging of 5 L or less for liquids, or having a g or less for solids.
 (-	Classi Hazaro Labels	I restriction code		single or combined single or inner p	n be subject to exemptions when packaged in nation packagings containing a net quantity per backaging of 5 L or less for liquids, or having a g or less for solids.

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SWITCH

1.0 18.08.2023 S1269856 Date of first issue: 18.08.2023

RID

	RID Packing group Classification Code Hazard Identification Number Labels Remarks	 III M7 90 9 This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.
	IMDG Packing group Labels EmS Code Remarks	 III 9 F-A, S-F This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels Remarks	 956 Y956 III Miscellaneous This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.
	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels Remarks	 956 Y956 III Miscellaneous This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.
5	Environmental hazards	

14.5 Environmental hazards

ADN Environmentally hazardous	:	yes
ADR Environmentally hazardous	:	yes
RID Environmentally hazardous	:	yes

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

-				
Version	Revision Date:	SDS Number:	Date of last issue: -	
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023	

Marine pollutant	:	yes	
IATA (Passenger) Environmentally hazardous	:	yes	
IATA (Cargo) Environmentally hazardous	:	ves	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	:	Conditions of restriction for the fol- lowing entries should be considered: formaldehyde (Number on list 72, 28) methylcyclohexane
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:		Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer			Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	- :		Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and impor of dangerous chemicals			Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:		Not applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	EI	N١	/IRONMENTAL HAZARDS

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements

H302 H317	:	Harmful if swallowed. May cause an allergic skin reaction.	
-	:	Causes serious eye damage.	
H332	:	Harmful if inhaled.	
H335	:	May cause respiratory irritation.	
H400	:	Very toxic to aquatic life.	
H410	:	Very toxic to aquatic life with long lasting effects.	
Full text of other abbreviations			

Acute Tox. :	Acute toxicity
Aquatic Acute :	Short-term (acute) aquatic hazard
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Eye Dam. :	Serious eye damage
Skin Sens. :	Skin sensitisation
STOT SE :	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008: CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



SWITCH

Version	Revision Date:	SDS Number:	Date of last issue: -	
1.0	18.08.2023	S1269856	Date of first issue: 18.08.2023	

Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information				
Classification of the mixture:		Classification procedure:		
Skin Sens. 1	H317	Based on product data or assessment		
Aquatic Acute 1	H400	Based on product data or assessment		
Aquatic Chronic 1	H410	Based on product data or assessment		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

XI / EN